

The proposed commutatorless direct-current motor contains a stator with a magnetic core and an armature winding, a disk rotor with a toroidal excitation winding, an angle position transducer for the rotor, and a semiconductor switching unit. The magnetic core of the stator contains U-shaped ferromagnetic pole shoes that cover the disk rotor. The sections of the armature winding are arranged in the radial slots of the magnetic core of the stator. The semiconductor switching unit is designed for switching current in the sections of the armature winding depending on the output signal of the rotor angle position transducer.